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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/827,508	04/19/2004	Frederick Lin	CFP-2158 (20040143.ORI)	CFP-2158 (20040143.ORI) 8571	
23595	7590 09/13/2006	EXAMINER		NER	
NIKOLAI & MERSEREAU, P.A.			MRUK, GEOFFREY S		
900 SECOND AVENUE SOUTH SUITE 820 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER	
			2853		
			DATE MAILED: 09/13/2006	DATE MAILED: 09/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/827,508	LIN, FREDERICK				
Office Action Summary	Examiner	Art Unit				
	Geoffrey Mruk	2853				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 19 Ap	nril 2004					
·	the this application is in condition for allowance except for formal matters, prosecution as to the merits is					
.—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,					
·						
 4) ☐ Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are allowed.						
7) Claim(s) is/are rejected. 7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-26</u> are subject to restriction and/or election requirement.						
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Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Election/Restrictions

This application contains claims directed to the following patentably distinct species:

Species 1, claims 2-3, drawn to the LED printing system of claim 2 wherein the printer controller (C) includes a multiplier (14) for multiplying the original data with the calibration data before sending them to the dither block (12).

Species 2, claims 5-8, drawn to the LED printing system of claim 1 wherein the printer controller (C) includes: a first adder (15) connected with the data source (S); a threshold block (T) connected with the first adder (15); a second adder (17) connected with the first adder (15); a multiplexer (16) connected with the second adder (17); a calibration data memory (30) connected with the multiplexer (16); an error memory (18) connected with the second adder (17); and a calculation block (22) connected with the error memory (18) on one hand and connected with the first adder (15) on the other hand.

Species 3, claims 9-14, drawn to the LED printing system of claim 1 wherein the printer controller (C) includes: a dither block (12) connected with the data source (S); a first adder (15) connected with the dither block (12); a latch (50) connected with the first adder (15); a second adder (17) connected with the latch (50) on one hand and the first adder (15) on the other hand; an error prediction block (32) connected with the latch (50); and a calibration data memory (30) connected with the error prediction block (32).

Species 4, claims 15-21, drawn to the LED printing system of claim 1 including a dither block (12) between the data source (S) and the printer controller (C).

Additionally the following sub-species exist:

Sub-Species A, claim 22, drawn to the LED printing system of claim 1 wherein the data source (S) is a computer.

Sub-Species B, claim 22, drawn to the LED printing system of claim 1 wherein the data source (S) is a scanner.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1 and 24-26 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey Mruk whose telephone number is 571 272-2810. The examiner can normally be reached on 7am - 330pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GSM 9/7/2006

STEPHEN MEIER
SUPERVISORY PATENT EXAMINER